

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:837622 CAPLUS
 DN 123:232219
 ED Entered STN: 07 Oct 1995
 TI Surface-treated fins for heat exchangers
 IN Matsuzaki, Toshiji; Yasuda, Kazumi
 PA Katagi Aruminyuumu Seisakusho, Japan; Ohashi Chem Ind
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM F28F021-00
 ICS B32B015-08
 CC 47-4 (Apparatus and Plant Equipment)

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07190676	A2	19950728	JP 1993-331366	19931227 <--
	JP 3419864	B2	20030623		
PRAI	JP 1993-331366		19931227		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 07190676	ICM	F28F021-00
	ICS	B32B015-08

AB The upmost protective coatings on the title fins contain 30-90 weight% chitosan. Malodor on the fins is eliminated.

ST heat exchanger fin surface treatment

IT Heat-exchange apparatus
 (with surface-treated fins)

IT 9012-76-4, Chitosan

RL: TEM (Technical or engineered material use); USES (Uses)
 (coating; heat-exchanger fins coated with)

RN 9012-76-4

L4 ANSWER 2 OF 3 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 1995-384896 [50] WPIX

DNN N1995-281955 DNC C1995-166236

TI Surface treated fins for heat exchanger - where exterior is coated with protectant containing chitosan.

DC A82 D22 J08 P73 Q78

PA (KATA-N) KATAGI ALUMINIUM SEISAKUSHO KK; (OHAS-N) OHASHI KAGAKU KOGYO KK

CYC 1

PI	JP 07190676	A	19950728 (199550)*	5	F28F021-00	<--
	JP 3419864	B2	20030623 (200341)	5	F28F021-00	

ADT JP 07190676 A JP 1993-331366 19931227; JP 3419864 B2 JP 1993-331366 19931227

FDT JP 3419864 B2 Previous Publ. JP 07190676

PRAI JP 1993-331366 19931227

IC ICM F28F021-00

ICS B32B015-08

AB JP 07190676 A UPAB: 20030915

The outer surfaces of the fins are coated by protecting layer containing chitosan of 30-90 weight%

ADVANTAGE - The fins for heat exchanger, having long endurance, refrain from the initial malodour of resin, and the secular discomfort malodour caused by bacteria.

Dwg.0/0

FS CPI GMPI

FA AB

MC CPI: A10-E09; A12-W11G; D09-B; J08-D01

L4 ANSWER 3 OF 3 JAPIO (C) 2005 JPO on STN
AN 1995-190676 JAPIO
TI SURFACE-TREATED FIN FOR HEAT EXCHANGER
IN MATSUZAKI TOSHIJI; YASUDA KAZUMI
PA KATAGI ARUMINIYUUMU SEISAKUSHO:KK
OHASHI KAGAKU KOGYO KK
PI JP 07190676 A 19950728 Heisei
AI JP 1993-331366 (JP05331366 Heisei) 19931227
PRAI JP 1993-331366 19931227
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1995
IC ICM F28F021-00
ICS B32B015-08
AB PURPOSE: To improve continuous hydrophilic nature and to prevent uncomfortable smell by providing an outermost surface protective layer containing chitosan at least at a predetermined ratio.
CONSTITUTION: A protective layer containing at least 30-90% by dry weight of chitosan is provided on the outermost surface of a fin for heat exchanger. The chitosan is a kind of biopolymer which is obtained by N-acetylation of chitin being polysaccharide which is (1 \rightarrow 4) coupled with N-acetyl- β -D-glucosamine residue and contains various derivatives such as N-carboxy methylated chitosan. In this case, degree of deacetylation is nearly 80% or more chitosan content is 30-90wt.% in dry weight, and surface treatment agent such as perfluoroalkylethylene oxide may be added in content of 0.05-1wt.% per solid content of chitosan.
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